

Ryan Chouest daily data transmission and report

Period covered: 0228 hrs 07/11/2010-1057 hrs 07/12/2010

212.158 - Nautical miles covered

Vessel science party:

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Cruise notes:

The *Ryan Chouest* headed east, along the coast, towards Panama City while the shallow water, underway pump ran alongside. Vertical casts were taken at two locations; #1(07/11) at 1418 hrs and #2 (07/11) at 2128 hrs. The coordinates for both vertical casts were 30°14.11'N, 86°32.92'W and 30°05.65'N, 85°52.72'W, respectively.

Science results and preliminary interpretation:

Fluorometry results

Both Contros and Trios display slightly higher response levels of PAH close to the Theodore port. All three sensors display low-mid low levels of PAH concentration for the rest of the transect track along the Florida coast (Figure 2-4).

Surface Observations

Other than dolphins spotted at 1320 hrs on (07/11) and 0048 hrs on (07/12), 26°58'N and 84°32'W, the other significant surface observation made was sea weed within convergence at 0012 hrs on (07/12). See figure 1 for locations.

Ryan Chouest Cruise 7 Status

(07/11/2010 0228 CDT - 07/12/2010 1057 CDT)

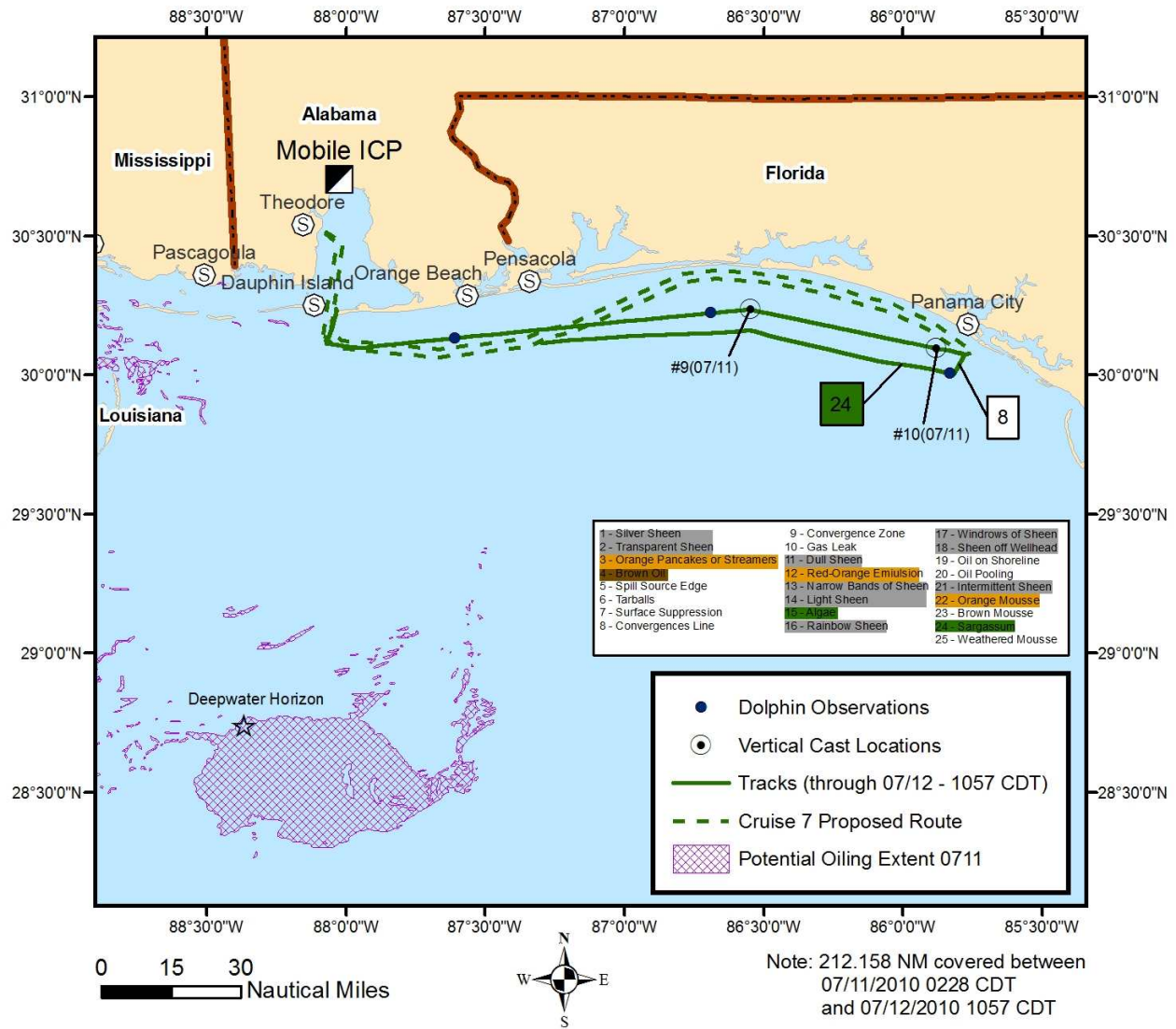


Figure 1. Planned course plotted for Cruise 6. Purple shaded area represents outline extent of the slick from 07/11 ERMA composite. The bull's eye symbol represents vertical cast locations labelled by the cumulative number of deployed cast and date of deployment.

Ryan Chouest Cruise 7 Data Chelsea - Fluorometer (07/11/2010 0228 CDT - 07/12/2010 1057 CDT)

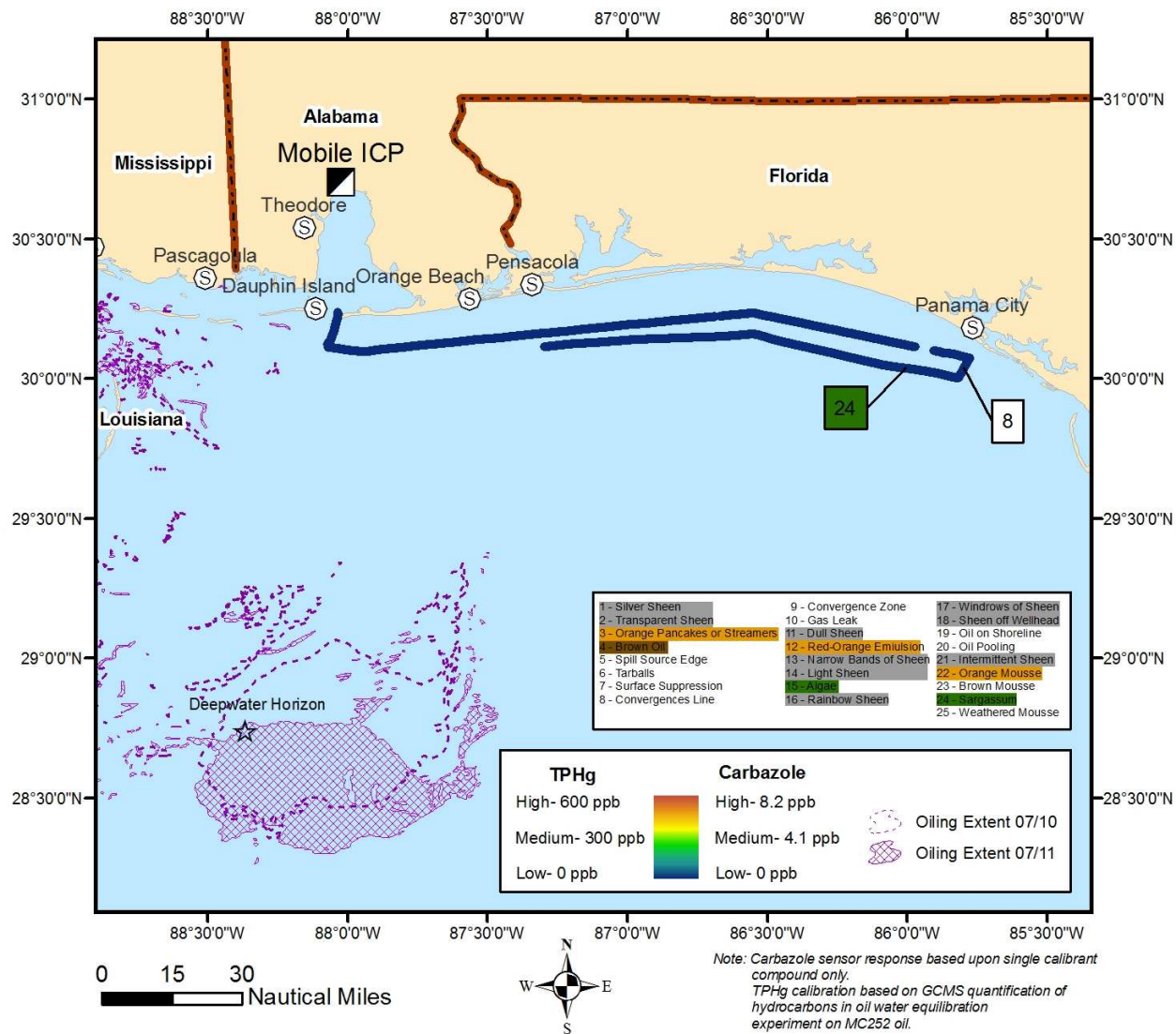


Figure 2. Chelsea fluorometer results plotted with location on cruise 7 track. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems.

Ryan Chouest Cruise 7 Data Trios- Fluorometer (07/11/2010 0228 CDT - 07/12/2010 1057 CDT)

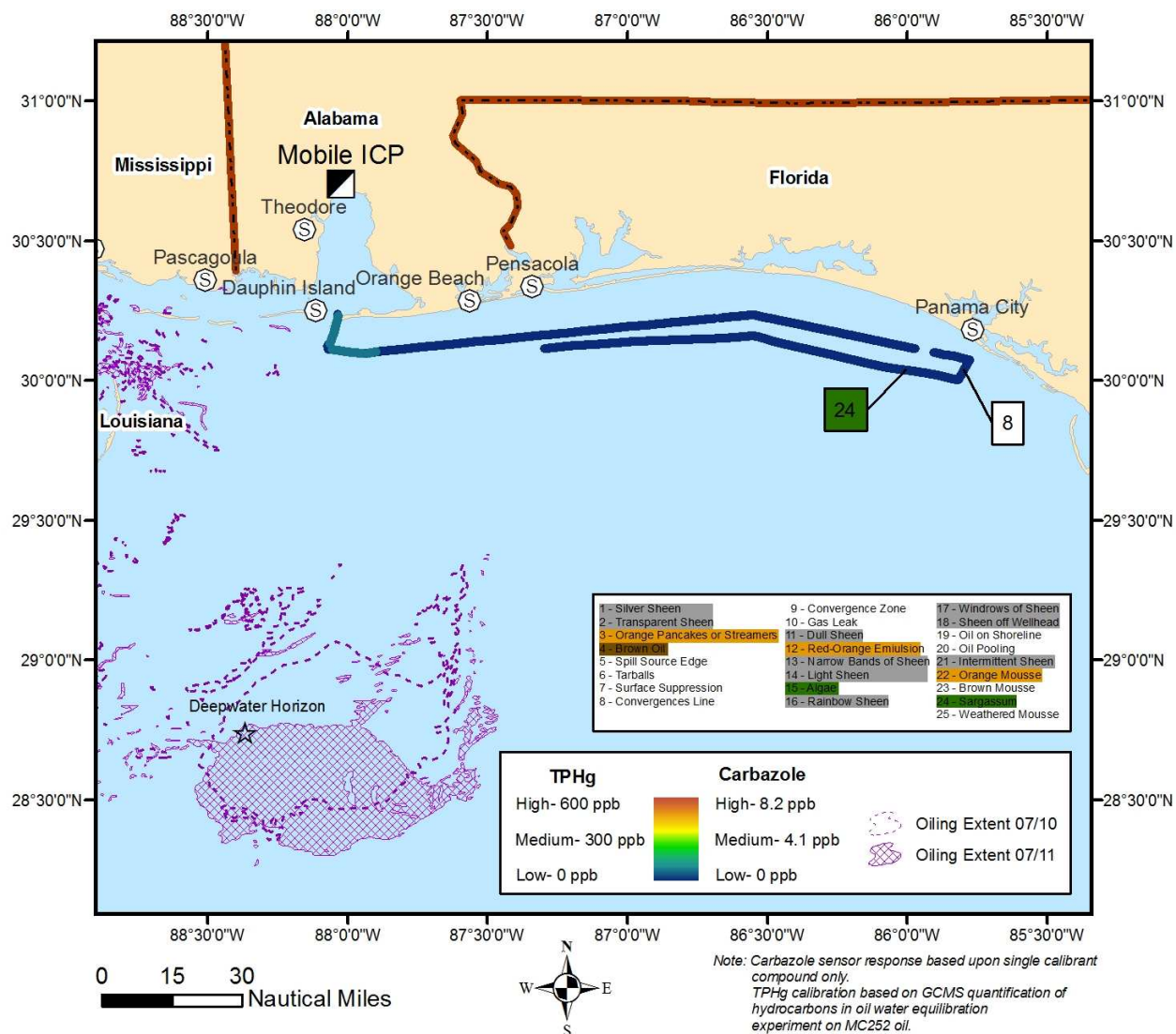


Figure 3. Trios fluorometer results plotted with location on cruise 7 track. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems.

Ryan Chouest Cruise 7 Data Contros- Fluorometer (07/11/2010 0228 CDT - 07/12/2010 1057 CDT)

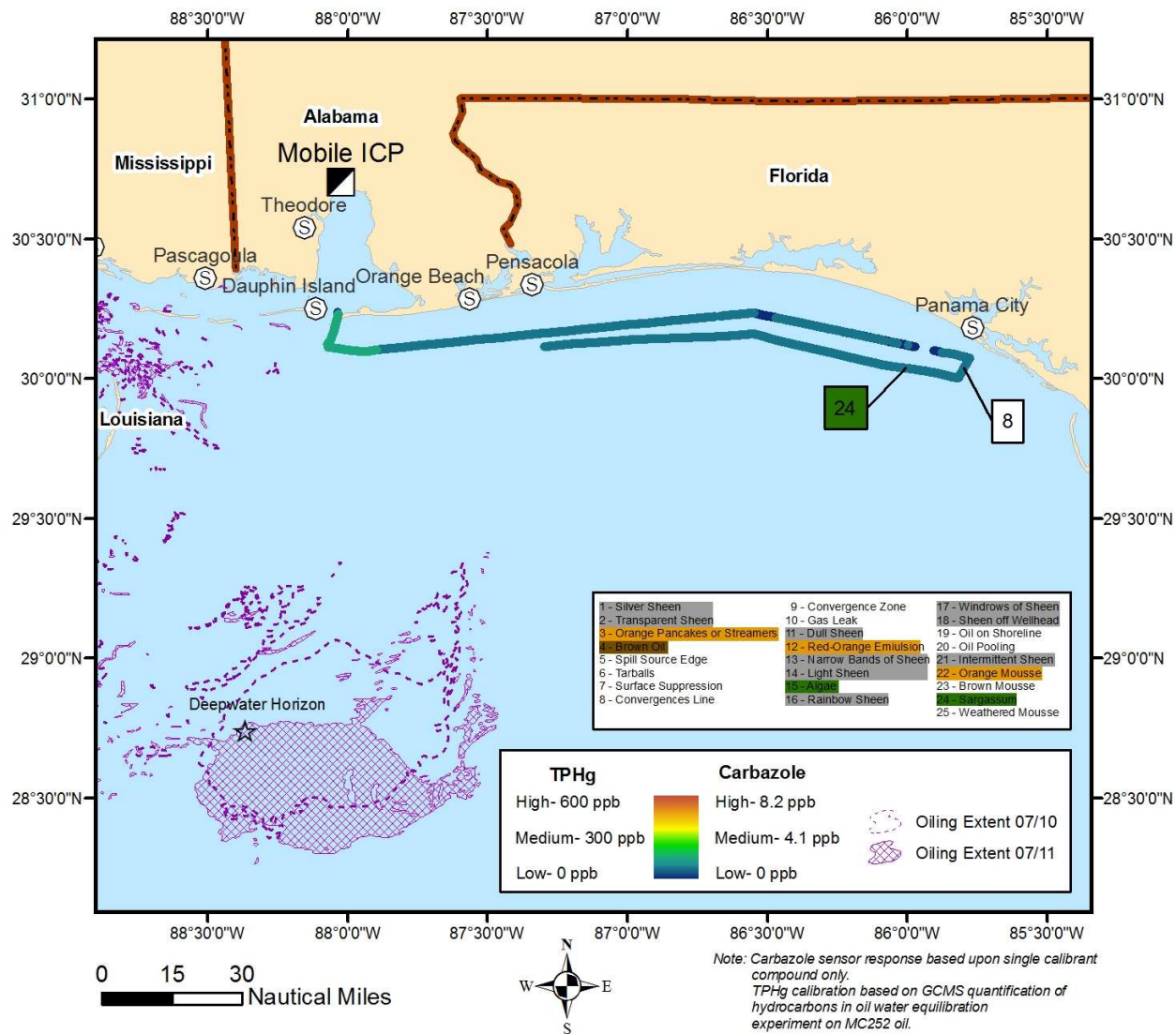


Figure 4. Contros fluorometer results plotted with location on cruise 6 track. Breaks in data occur when either data quality is poor or the systems were turned off due to pump problems.



Photo 1. A Sea Bird 19 CTD attached to the vertical cast pump.

Problems/operational issues:

A Sea Bird 19 CTD unit (from C&C) is attached to the vertical cast pump (Photo1) and contributes additional information of conductivity, temperature and depth to the vertical profile.

Planned activities for next 24 hours:

The *Ryan Chouest* will still head west with plans to perform the vertical cast along the way and, lastly, within the vicinity of Dr Szedlmayer's red snapper study area.